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Dark silver metallic pigment excellent in weather resistance and glittery property - obtained by coating base material surface with silver@ alloy containing tin@ and two elements selected from aluminium@, chromium@, nickel@, titanium@ and magnesium@

Patent Assignee: NISSHIN STEEL CO LTD (NISI)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week

JP 10158541 A 19980616 JP 96316177 A 19961127 199834 B

Priority Applications (No Type Date): JP 96316177 A 19961127

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 10158541 A 6 C09C-003/06

Abstract (Basic): JP 10158541 A

A new dark silver metallic pigment excellent in weather resistance and glittery property is obtained by coating the surface of powder granular pigment base material with silver alloy containing 0.5-30 wt. % Sn and 0.5-10 wt. % of one or two or more elements of Al, Cr, Ni, Ti and Mg by physical vapour deposition process. Also claimed is a glass flake or mica being used for the pigment base material in the dark silver metallic pigment excellent in weather resistance and glittery property. Also claimed is the surface of the pigment base material for the above dark silver metallic pigment being coated with the silver alloy by powder sputtering process.

ADVANTAGE - Since the dark silver metallic pigment is obtained by coating the surface of the powder granular base material of glass flakes or mica, etc. with the silver alloy comprising one or two or more elements of Sn and Al, Cr, Ni, Ti, Mg by the physical vapour deposition process, discoloration can be prevented in comparison with the pigment obtained by coating the base material with silver alone, and the coat or the resin mouldings having the surface rich in the dark silver metallic feel excellent in weather resistance and glittery property can be obtained, and besides, since the silver colour tone can be controlled in a wide range by the content of the alloy components, the dark silver metallic pigment can be used for various uses requiring the design patterns.

Dwg.2,3,4/



*weather resistance
glittery
design patterns*

Title Terms: DARK; SILVER; METALLIC; PIGMENT; WEATHER; RESISTANCE;
PROPERTIES; OBTAIN; COATING; BASE; MATERIAL; SURFACE; SILVER; ALLOY;
CONTAIN; TIN; TWO; ELEMENT; SELECT; ALUMINIUM; CHROMIUM; NICKEL;

TITANIUM

; MAGNESIUM

Derwent Class: A60; G01; G02; M13; M26

International Patent Class (Main): C09C-003/06

International Patent Class (Additional): C08K-009/02; C09C-001/40;

C09D-005/00; C09D-007/12; C23C-014/00; C23C-014/14

File Segment: CPI

Manual Codes (CPI/A-N): A08-E02; G01-A12; G01-A12A; M13-H; M26-B01;

M26-B01A; M26-B01C; M26-B01M; M26-B01N; M26-B01T

Polymer Indexing (PS):

<01>

001 018; P0000

002 018; ND00

003 018; D09 Al 3A Mg 2A Ti 4B Tr Ni 8B Cu 1B Ag; A999 A102 A077; N9999

N7089 N7034 N7023; N9999 N7103-R N7034 N7023; K9529 K9483; K9676-R;

K9687 K9676; K9870 K9847 K9790; B9999 B4411 B4400 B4240; B9999

B4728 B4568; B9999 B4262 B4240; K9949

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